

Polymer dispersion with color effect

Abstract

- 5 Process for improving the brilliance of color and the stability of a colored polymer system, which is composed of a matrix and of discrete polymer particles distributed in accordance with a defined spatial lattice structure in the matrix, and which is obtained by filming of an emulsion polymer with core/shell structure, which comprises
- 10 - using an emulsion polymer obtainable by
 - polymerizing monomers in at least one first stage (core monomers),
 - then polymerizing monomers in at least one further, second stage (transition stage), and
 - finally polymerizing monomers in a third stage (shell monomers),
- 15 where, based on the percentage constitution of the monomer mixtures of the three stages, at most 30% by weight of the monomers of the first stage are identical with those of the third stage, and 5% of the monomers of the second stage are identical with, respectively, those of the first and those of the third stage, and not more than 60%
20 by weight of the monomers of the 2nd stage here are monomers absent in the 1st stage and also absent in the 3rd stage.